

Atty. Docket No. YOR920000655US2 (8728-446 DIV)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Alessandro C. Callegari et al.

SERIAL NO.:

10/606,523

FILED:

June 26, 2003

DATED: September 23, 2003

FOR:

IMPROVING STABILITY OF ION BEAM GENERATED

ALIGNMENT LAYERS BY SURFACE MODIFICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to Applicant(s) duty of disclosure, the information listed in the attached form PTO-1449 is brought to the attention of the Examiner. Copies of the listed items are enclosed.

The citation of the listed items is not a representation that they constitute a complete or exhaustive listing of the relevant art or that the references are prior art.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2313-1450 on September 23, 2003.

Dated: September 23, 2003

Nathaniel T. Wallace

The items listed are submitted in good faith, but are not intended to substitute for the Examiner's search. It is hoped, however, that in addition to apprising the Examiner of these particular items, they will assist in identifying fields of search and in making as full and complete a search as possible.

The filing of this information disclosure statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

- This information disclosure statement is being filed within three (3) months of the filing date of this application.
- This information disclosure statement is being filed within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application.
- [X] To the best of Applicant(s) knowledge, this information disclosure statement is being filed before the date of mailing of a first Office Action on the merits in connection with this case.
- [] Statement under 37 C.F.R. § 1.97(e):
 I hereby state that each item of information contained in this
 Information Disclosure Statement was cited in a communication
 from a foreign patent office in a counterpart foreign application not
 more than 3 months prior to the filing of this statement.
- [] Enclosed herewith is a petition under 37 C.F.R. §1.97(d)(ii).
 - [] Enclosed by check is the petition fee of \$130.00. 37 C.F.R. §1.17(i)(1))
 - Please charge the \$130.00 petition fee to Deposit Account No. 50-0510/IBM.

- [] Enclosed by check is the \$180.00 fee required by 37 C.F.R. §1.17(p).
- Please charge the \$180.00 fee required by 37 C.F.R. §1.17(p) to Deposit Account No. 50-0510/IBM.
- [X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. §1.16 and/or §1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account 50-0510/IBM. Also, in the event any extensions of time for responding and/or a petition under 37 C.F.R. §1.17(i)(i) are required for the pending application(s), please treat this paper as a petition to extend the time and/or enter this Information Disclosure Statement as required and charge Deposit Account No. 50-0510/IBM therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

The claims of the application as now presented are believed to patentably distinguish over the prior art and to be in condition for allowance. Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,

Nathaniel T. Wallace Reg. No. 48,909

Attorney for Applicant(s)

F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike Suite 501 East Meadow, New York 11554 (516) 357-0091 (516) 357-0092 (FAX)

Form PTO-1469 U.S. DEPARTMENT OF COMMERCE					ATTY. DOCKET NO.		SERIAL NO.				
SEP 2 5 2003					YOR920000655US2 (8728-446 DIV)			10/606,523			
INFORMATION DISCLOSURE TOTAL PROPERTY BY APPLICANT (Use several sheets if necessary)				AF	APPLICANT						
(Use several sheets if necessary)				AI	Alessandro C. Callegari et al.						
					FILING DATE			GROUP ART UNIT			
					June 26, 2003						
			U.S. PA	ATENT	T DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLASS	s	UBCLASS	FILING DATE IF APPROPRIATE		
		5,030,322	7/9/91	Shim	himada et al.			655	8/17/90		
		5,710,608	1/20/98	Naka	abayashi et al.	349	4	125	12/27/95		
		5,770,826	6/23/98	Chau	udhari et al.	204		157.15	5/10/96		
		6,020,946	2/1/00	Calle	egari et al.	349		124	2/23/98		
		6,061,114	5/9/00	Calle	egari et al.	349	_ _	125	2/23/98		
		6,061,115	5/9/00		ant et al.	349	129		11/3/98		
		6,331,381			Chaudhari et al.		_	320	4/14/00		
		6,485,614	11/26/02	Kato	h et al.	204		157.15	11/30/00		
	<u> </u>		FOREIGN	N PAT	ENT DOCUMENTS						
		DOCUMENT	DATE		COUNTRY		s	SUBCLASS	TRANSLATION		
		NUMBER					_		YES	NO	
		OTHER F	RIOR ART (Includin	ng Aut	hor, Title, Date, Pertinent F	Pages, Et	c.)				
	Tschersich, K.G., et al., Formation of an Atomic Hydrogen Beam by a Hot Capillary, Journal of Applied Physics, Vol. 84, No. 8, 10/15/98, pp. 4065-4070.									sics,	
	Harvey, K.C., et al., <u>Semiconductor Detector for the Selective Detection of Atomic Hydrogen</u> , American Institute of Physics, pp. 1117-1120.								itute of		
EXAMINER					DATE CONSIDERED						
* EXAMINER	R: Initia	I if reference considered formance and not considered	, whether or not cita dered. Include copy	ation is	in conformance with MPE s form with next communic	P 609. D	raw lii pplica	ne through nt.			

(Form PTO-1449 [6-4])

Form PTO-184	Orm PTO 1949E U.S. DEPARTMENT OF COMM PATENT AND TRADEMARK C		IT OF COMMERCE ADEMARK OFFICE	ATTY. DOCKET NO.		SERIAL NO.				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Se several sheets if necessary)				YOR920000655US2 (8728-446 DIV)		10/606,523				
				APPLICANT						
				Alessandro C. Callegari et al.						
			FILING DATE GROUP ART UNIT							
				June 26, 2003						
			U.S. PA	TENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
					<u> </u>					
							_			
							<u> </u>			
			FOREIGN	PATENT DOCUMENTS	1		1			
		DOCUMENT DATE		COUNTRY		S SUBCLASS				
	NUMBER				<u> </u>		YES	NO		
		OTHER PF	RIOR ART (Including	Author, Title, Date, Pertinent	Pages, Et	tc.)				
IBM Disclosure Bulletin, <u>Ion Bombardment of Polyimide for the Alignment of Liquid Crystals</u> , New York, Vol. 23, No. 4B, 9/1/91, pp. 80-82.										
		Japanese Abstract No. XP-002224303, 2/28/92.								
	U.S. Patent Application Publication No. 2002/0001057, Publication Date Jan. 3, 2002, Method and Apparatus for Making a Crystal Alignment Layer									
	U.S. Patent Application Publication No. 2001/0025826, Publication Date Oct. 4, 2001, Dense-Plasma Etching of INP-Based Materials Using Chlorine and Nitrogen									
	U.S. Patent Application Publication No. 2001/0041380, Publication Date Nov. 15, 2001, Method for Forming a Multi-Domain Alignment Layer for a Liquid Crystal Display Device.									
EXAMINER				DATE CONSIDERED						
* EXAMINER	: Initial if	reference considered,	whether or not citation	n is in conformance with MP f this form with next communi	EP 609. [cation to a	Draw line through applicant.				
0.0000711710				orm PTO-1449 [6-4])						